

YALE UNIVERSITY
NEW HAVEN CONNECTICUT

DEPARTMENT OF CHEMISTRY

STERLING CHEMISTRY LABORATORY
225 PROSPECT STREET

Dec. 22/27.

Dr. F. R. Sabin
New York, N.Y.

Dear Doctor Sabin:

I am very much interested in the results mentioned in your letter of the 16th and they seem very significant. But apparently you will have to study general fats as well as our particular fatty acid. As a beginning in this direction I would suggest that you study the effect of simple substances, olive acid for instance, rather than complex glycerides, containing numerous unknown substances, such as olive oil.

I agree with you that smaller doses and fewer doses of the saturated fatty acid should be given. I should also advise that several animals be given these doses and that you determine their fate when left to themselves. How long would it take for the break-down of the tubercular tissue and what would happen to the animal when such break-down begins?

To begin with I will send you a lot of the purified wax, some more of the saturated fatty acid and

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also some oleic acid. I shall send directions as to dosage and method of administration.

Another thing I would like to ask you - Do you think that the fatty material in the artificial tubercular tissue would cause a similar development if introduced into another normal animal? Don't you think this point needs investigation? Would normal rabbit fat introduced into a healthy rabbit produce a similar abnormal development? If normal rabbit fat should be used this might prove a good method of introducing foreign fats - that is dissolving the foreign fat in the rabbit fat and then injecting it.

It would seem as if you have a large problem before you and it will take some time to work it out.

I feel immensely interested in the effect of the saturated fatty acid - But is this a specific effect or will other fats give similar results? Please try some oleic acid in comparison to begin with.

With the best greetings
Sincerely
W. J. Henderson

- over -

As to fat from normal rabbits - do you have any
or could you have some prepared at the Institute?
If you have none, and can't get any prepared
conveniently but if you would be interested
in trying it I shall try to prepare some for you
here.

12/9/42